International Journal of Mechanical Engineering and Technology 2018 vol.9 N8, pages 1141-1150

Modern educational technologies in training specialists and bachelors in energy & power engineering

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Abstract

© 2018 IAEME Publication. All rights reserved. The article describes the experience of the Elabuga Institute of the Kazan Federal University, one of the oldest Tatarstan higher educational institutions, in training teachers of physics, mathematics, computer science, and bachelors in energy & power engineering at the Mathematics and Natural Sciences Faculty. The specific character of activity of teachers who participate in training programs is described, those teachers who will have to work at technical colleges, vocational schools, at enterprises of the Alabuga Special Economic Zone, and research, development, and production and educational clusters. The research methodology addresses the system approach, the universal connection of phenomena and processes of reality, and the education development sphere in the Russian Federation that is presented in the activity of the KFU and its structural units. The following research methods are selected: generalization of best practices, observation of students' activity, analysis of scientific publications, learning and teaching publications, periodicals, Internet resources, the plans of study, working programs, organization of experiments and laboratory sessions, implementation of research projects in energy & power engineering, as well as implementation of innovative and digital technologies and teaching techniques.

Keywords

Alabuga, Bachelors in energy, Digital technologies, Innovations, Masters, Power engineering, Science sphere, The education

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